

A

PROJECT  
REPORT ON

GoFarm A2 Milk  
An Online Milk  
Distribution Management  
System

SUBMITTED IN PARTIAL FULFILLMENT OF  
DIPLOMA IN ADVANCED COMPUTING (PG-DAC)



UNDER THE GUIDANCE OF Mr. Vinu Josy

PRESENTED BY

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AT

CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING

C-DAC, PUNE

# ACKNOWLEDGEMENT

The project “GoFarm A2 Milk” was a great learning experience for us and we are submitting this work to Advanced Computing Training School (C-DAC ACTS, Pune).

We are very glad to mention the name of Mr. Vinu Josy for their valuable guidance to work on this project.

We are highly grateful to P. R., Manager of ACTS Training Centre, CDAC, for their guidance and support whenever necessary during the course of our journey to acquire PG-Diploma in Advanced Computing (PG-DAC) through CDAC ACTS, Pune.

Our heartfelt thanks go to Ms. Namrata (Course Coordinator, PG\_DAC) who gave us all the required support and kind coordination to provide all the necessities to complete the project and throughout the course up to the last day of the course.

We would like to express our sincere gratitude towards Mr. Vinu Josy, our project guide, who were always there for us. Their guidance and support helped us overcome various obstacles and intricacies during the course of our project work. Without their tremendous support, guidance, and efforts, this project would not have been possible.

From:

|              |                           |
|--------------|---------------------------|
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# ABSTRACT

Milk - The product which is an essential part of our day to day life, but in our busy life schedule it is hard to maintain the record of daily consumption, bills, to demand extra, to ask for leave, to search for offers, to be at home and get best quality of milk we here with the help of GoFarm A2 Milk comes up with the solution.

In our project we aim to provide a good experience to user, as well as it will be easy for delivery agents to track their daily order, where user can order milk from home and will get delivered.

# 1. INTRODUCTION

We can't imagine our day without milk and for some of us like without a good tea. From new born baby to grown adults everyone requires milk. Our favourite sweets are made of milk, paneer, cheese are some of most used products are also made of milk. For our physical as well as mental growth we all require to drink milk.

Some of milk distributors are nowadays selling milk with water and if you are in a big city like Mumbai, Pune then it is quite hard to find a reliable milk distributor and if somehow we find one of the distributor then they may sell milk at price that they want, and again one of main concern is that they can manipulate the rate as they want. For all this problems we come up with GoFarm A2 Milk.

Online Milk distribution system is digital platform that allows customers to access the service of business, do subscribe using your id and password, ask for quantity of milk and if need extra then ask and get order daily at your desired address. This platform will provide details such as what is current cost of milk per litre, what are offers if running, your billing history and unbilled summery and can ask for leave if require.

An online milk distribution system involves interaction between representatives of business and customer. Both parties have access to system but they both can access in different ways i.e. they both have different roles to play. The business representatives access the system as administrators (admins) while the customers access the system as registered users.

From customer point of view the customer can go through app, can see rate of milk billing history, can demand for extra , can ask for leave. Customers can also demand to change in delivery address if they shift from one location to another.

From admin point of view, the admins can change the rate of milk , manage customers, manage delivery agents, manage managers, they can also manage the offers during festival.

## 2. PRODUCT OVERVIEW AND SUMMARY

### 2.1. PURPOSE

Our project “GoFarm A2 Milk” , is web-based online milk distribution system which aims to provide users with an easy to navigate and visually appealing medium to get details about milk distributor and can get subscription if want.

### 2.2. SCOPE

“GoFarm A2 Milk” aim to deliver a web-based application that can get user to see details of milk and prices. Customers can register their profile, sign in and then can get subscription if they are happy with price. Once they done they can logout of their profile. Admins can manage customers, delivery agents as well as managers, price of milk per litre, offers if he want to give.

This project does not support the payment system. We are assuming that the organization will use other third party app for online payment and can pay with cash directly by giving it to delivery agents. GoFarm is only interface for both customers (for seeing price of milk and services and register if pleased) and admins (for managing customers, managers, delivery agents, price of milk).

## 2.3. OVERVIEW

### A. TECHNOLOGIES USED

#### i. FRONT END

- Bootstrap
- Router-Dom
- React
- Axios

#### ii. BACK END

- SpringBoot

#### iii. DATABASE MANAGEMENT SYSTEM

- MySql

### B. FEATURES PROVIDED

#### i. FOR CUSTOMERS

- a. Browse – Customers can browse the homepage to explore check the price of milk, other service provided and can register if he/she happy.
- b. Register, Login & Logout -- New customers can register on the site. Existing customers can then login to access their account information and logout when the account is not in use.
- c. View Profile – When logged in, customers can view their profile.
- d. Choose quantity of milk in litres—If customers like the price system and services, then they can select the quantity of milk they want and can also ask for leave.
- e. Choose address -- Once customer login and if after some days he/she wants to shift from one place to another they can ask delivery in different address.
- f. Billing history -- Customer can view their billing history and can have track of their bills.



## ii. FOR ADMINS

- a. Login & Logout – Similar to customers, admins can login & logout to access their account.
- b. Add New Offers – Admin can add offers if they want to attract new customers.
- c. Manage customers, delivery agents and managers – The admin can edit, delete or update any details of Customers, delivery agents and managers he needed.
- d. Grant leave – Admin can grant leave demand by customers.
- e. Delete Movie Details – Often movies need to be deleted after their showings are over. In such cases, the admins can delete those movie details to reflect the change on the application.

## iii. FOR DELIVERY AGENTS

- a. Today Order – Delivery agent can see his todays orders, the quantity of packets to deliver, where to deliver extra milk.
- b. Arrange Line – If new Customers added/subscribe then its delivery agent's job to give a sequencer no to that customer which will make it easy for him to delivery.
- c. Approve Customer – To approve newly added customer.
- d. Agent Bill – To confirm the amount of bill for customer generated, review it and receive the payment via cash.

## 2.4. FEASIBILITY STUDY

Feasibility is the determination of whether a project is worth undertaking or not. Before actually recommending the new system, it is important to investigate if it is feasible to develop it.

Before developing and implementing a system, we have to make sure that the system is feasible in the following ways:

### A. TECHNICAL FEASIBILITY

In this type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with the available manpower, software, hardware, etc.

This project makes use of cross-platform software and solutions like Spring-Boot, React and hence can run on any operating system. React, used in front-end, is swift and light weight framework when it comes to delivering the requested page as it doesn't reload the entire page for every HTTP request. It only re-renders the components that need to fetch new data. Also, as React is modular in nature, it is easy to develop new components and scale up existing components in order to add new features to the system. The Spring-Boot for backend make for a fast, easy to set-up and reliable system to interact with the database, as they are secure and transactional in nature. Since the sensitive data of customers and admins need to be stored in a robust and secure database, MySQL database management system was chosen as it is an industry standard.

### B. OPERATIONAL FEASIBILITY

In this type of feasibility study, the operation of the system is considered. An analysis is performed on whether it is feasible for the user department to use the application. Thus, the proposed system is said to be operationally feasible only if clients are able to understand the system clearly and correctly, and can use it with ease.

In the design of this project, we always kept user experience in mind. We made an effort to have a good user interface with consistent theme

and alluring design to keep the users interested and engaged. In our project, the use of universally known icons and instructions that are easy to understand makes sure that the user will not need any special technical know-how to use the application. We made sure that the information available throughout the application is arranged in a logically coherent and consistent manner, guaranteeing that the users will have a smooth and effortless experience and even enjoy using the application.

## C. ECONOMIC FEASIBILITY

In this type of feasibility study, the benefits of the system to the organization are considered by taking into consideration the cost-benefit analysis. All the software and technologies used in our project are free, open-source, and widely available, with each of the technologies having an extensive community support. This makes “GoFarm A2 Milk” an economically feasible solution to the organizations that wish to implement it.

## 3. REQUIREMENTS FULFILLED

### 3.1. FUNCTIONAL REQUIREMENTS

Following are the functional requirements fulfilled by our project:

- Customers can browse through application and can see price of milk per litre and offers for him.
- Customer if likes services provided then he can register.
- Customers can choose initial date and final date to check the billing history.
- Customers can ask to updates their details, if there is any change.
- Admins can manage Customers, Delivery Agents and Managers.
- Admins can show the offers available.
- Admin can change the price of milk per litre.
- Admins can delete offers if, offer duration end.

### 3.2. NON-FUNCTIONAL REQUIREMENTS

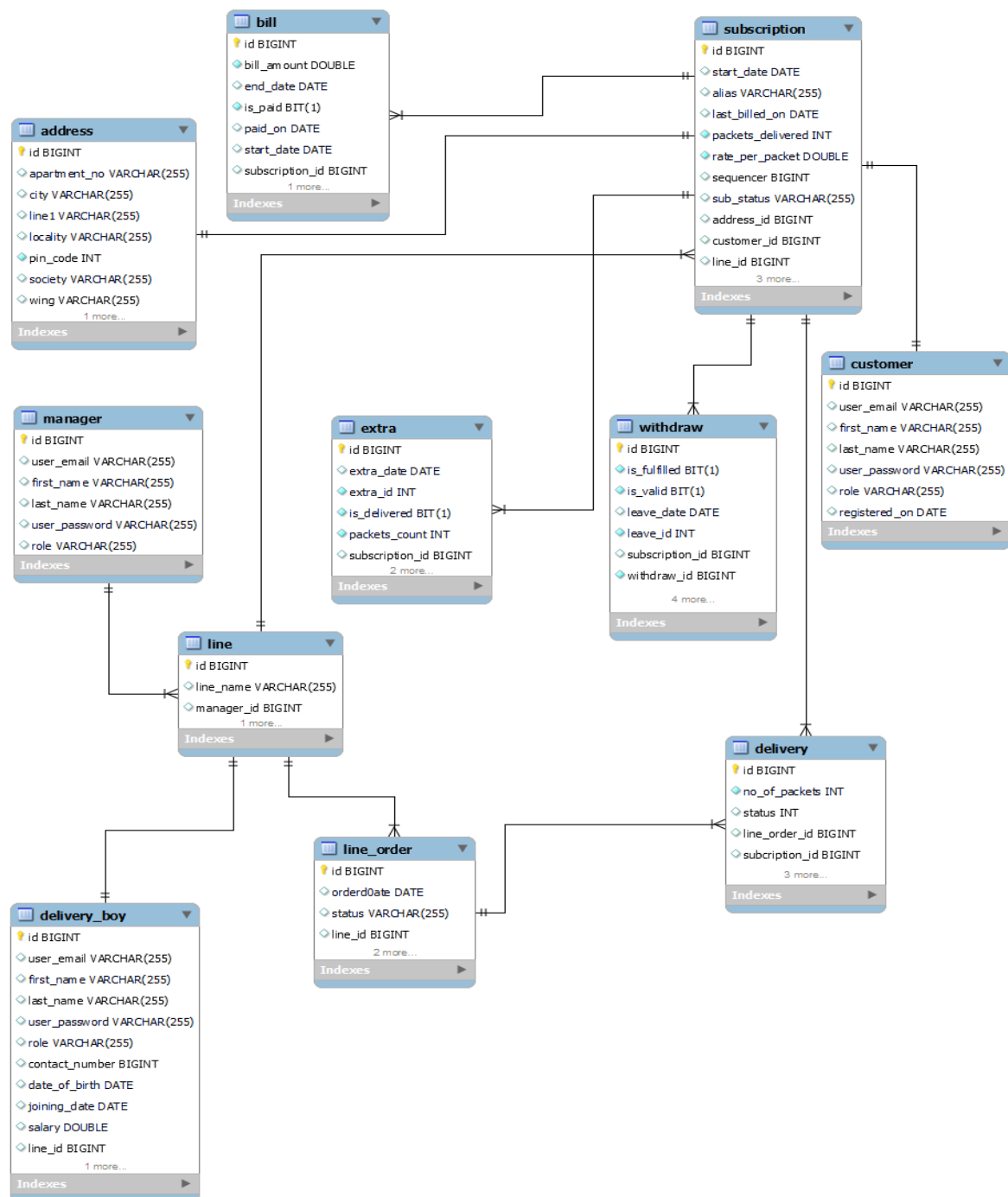
Following are the non-functional requirements fulfilled by our project:

- Since the application uses lightweight and established software components that are also cross-platform, it is remarkably performant and has good support for every operating system.
- The use of React for front end and Spring-Boot for back end delivers quick response times to admins and customers alike.
- Card-style User Interface and well-known icons and symbols used throughout the application provides a consistent theme and user-friendly interface that anyone can grasp easily, even without a technical background.

## 4. PROJECT DESIGN

### 4.1. DATA MODEL

ER-Diagram:



## A. Database Tables

### a. Users

#### Customer Table:

| 100% 1:1   |      |                      |            |           |               |          |               |
|--|------|----------------------|------------|-----------|---------------|----------|---------------|
| Result Grid Filter Rows: Search Edit: Export/Import: |      |                      |            |           |               |          |               |
|  | id   | user_email           | first_name | last_name | user_password | role     | registered_on |
| ▶  | 1    | ujwal@gmail.com      | Ujwal      | Kelkar    | ujwal@123     | CUSTOMER | 2020-02-01    |
|  | 2    | customer2@gmail.com  | Suraj      | Teke      | ujwal@123     | CUSTOMER | 2020-05-01    |
|  | 3    | customer3@gmail.com  | Sagar      | Rane      | ujwal@123     | CUSTOMER | 2020-06-01    |
|  | 4    | customer4@gmail.com  | Snehal     | Navale    | ujwal@123     | CUSTOMER | 2023-03-13    |
|  | 5    | customer5@gmail.com  | Nikhil     | Pawar     | ujwal@123     | CUSTOMER | 2020-08-01    |
|  | 6    | customer6@gmail.com  | Sumedh     | Raut      | ujwal@123     | CUSTOMER | 2021-01-01    |
|  | 7    | customer7@gmail.com  | Omkar      | Joshi     | ujwal@123     | CUSTOMER | 2029-02-01    |
|  | 8    | customer8@gmail.com  | Yash       | Savant    | ujwal@123     | CUSTOMER | 2023-03-13    |
|  | 9    | customer9@gmail.com  | Ankita     | Ghodke    | ujwal@123     | CUSTOMER | 2021-06-01    |
|  | 10   | customer10@gmail.com | Varsha     | Rane      | ujwal@123     | CUSTOMER | 2023-03-13    |
|  | 11   | customer11@gmail.com | Satyam     | Joshi     | ujwal@123     | CUSTOMER | 2021-11-01    |
|  | 12   | customer12@gmail.com | Vaibhav    | Rajguru   | ujwal@123     | CUSTOMER | 2023-03-13    |
|  | 13   | customer13@gmail.com | Shivani    | Dighe     | ujwal@123     | CUSTOMER | 2020-04-01    |
|  | 14   | customer14@gmail.com | Amruta     | Sakure    | ujwal@123     | CUSTOMER | 2020-06-01    |
|  | 15   | customer15@gmail.com | Rohit      | Jadhav    | ujwal@123     | CUSTOMER | 2020-12-01    |
|  | NULL | NULL                 | NULL       | NULL      | NULL          | NULL     | NULL          |
|  |      |                      |            |           |               |          |               |
|  |      |                      |            |           |               |          |               |
|  |      |                      |            |           |               |          |               |

#### Subscription Details:

| Query 3 delivery line_order delivery subscription    |            |              |               |                         |          |          |               |      |                   |                |                |                    |                  |           |            |                     |
|--|------------|--------------|---------------|-------------------------|----------|----------|---------------|------|-------------------|----------------|----------------|--------------------|------------------|-----------|------------|---------------------|
| Result Grid Filter Rows: Search Edit: Export/Import: |            |              |               |                         |          |          |               |      |                   |                |                |                    |                  |           |            |                     |
| id   | start_date | apartment... | city          | line1                   | locality | pin_code | society       | wing | alias             | last_billed_on | packet_per_day | packets_deliver... | rate_per_pack... | sequencer | sub_status | customer_id line_id |
| 1  | 2023-01-01 | 13           | Manchar       | Near Sawata Mali Mandir | Gavthan  | 410503   | Vrindavan     | F    | Vrindavan f13     | 2023-03-01     | 1              | 12                 | 65               | 1         | Active     | 1 1                 |
| 2  | 2023-01-01 | 10           | Manchar       | Near Sawata Mali Mandir | Gavthan  | 410503   | SidharthNagar | A    | SidharthNagar a10 | 2022-08-01     | 1              | 0                  | 70               | 3         | Inactive   | 2 1                 |
| 3  | 2023-01-01 | 1            | Aundh         | Near Post Office        | Gavthan  | 410503   | MadhuColony   | C    | MadhuColony c1    | 2023-03-01     | 2              | 13                 | 60               | 2         | Active     | 3 1                 |
| 4  | 2023-01-01 | 4            | Sangavi       | Near Model School       | Gavthan  | 410503   | TilakNagar    | B    | TilakNagar b4     | NULL           | 1              | 0                  | 70               | -1        | Created    | 4 1                 |
| 5  | 2023-01-01 | 13           | Baner         | Near Police Station     | Gavthan  | 410503   | Paradise      | F    | Paradise f13      | 2023-03-01     | 1              | 15                 | 65               | 4         | Active     | 5 1                 |
| 6  | 2023-01-01 | 13           | Magarpatta    | Near IT Park            | Gavthan  | 410503   | Pearl         | A    | Pearl a7          | 2023-03-01     | 2              | 24                 | 60               | 1         | Active     | 6 2                 |
| 7  | 2023-01-01 | 1            | Pashan        | Near Rainbow Garden     | Gavthan  | 410503   | Silvenus      | E    | Silvenus e1       | 2023-03-01     | 1              | 19                 | 65               | 3         | Active     | 7 2                 |
| 8  | 2023-01-01 | 3            | Panchavati    | Near Amanora Mall       | Gavthan  | 410503   | PWD Colony    | D    | PWD Colony d3     | NULL           | 1              | 0                  | 67               | -1        | Created    | 8 NULL              |
| 9  | 2023-01-01 | 9            | Shivaji Nagar | Near Bus Stand          | Gavthan  | 410503   | Nandanvan     | C    | Nandanvan c9      | 2023-03-01     | 2              | 32                 | 60               | 2         | Active     | 9 2                 |
| 10   | 2023-01-01 | 7            | Panchavati    | Near Railway Station    | Gavthan  | 410503   | Sopan Baug    | B    | Sopan Baug b7     | NULL           | 1              | 0                  | 60               | -1        | Created    | 10 NULL             |
| 11   | 2023-01-01 | 13           | KarveNagar    | Near Ganapati Temple    | Gavthan  | 410503   | Krishna       | F    | Krishna f13       | 2023-03-01     | 1              | 18                 | 70               | 2         | Active     | 11 3                |
| 12   | 2023-01-01 | 5            | Pashan        | Near Z.P.School         | Gavthan  | 410503   | Mathura       | J    | Mathura j5        | NULL           | 2              | 0                  | 65               | -1        | Created    | 12 NULL             |
| 13   | 2023-01-01 | 2            | Baner         | Near Sawata Mali Mandir | Gavthan  | 410503   | Vrindavan     | a    | Vrindavan a2      | 2023-03-01     | 1              | 14                 | 70               | 1         | Active     | 13 3                |
| 14   | 2023-01-01 | 6            | Navi Peth     | Near Hanuman Mandir     | Gavthan  | 410503   | SamarthNagar  | B    | SamarthNagar B6   | 2023-03-01     | 1              | 8                  | 65               | 3         | Active     | 14 3                |
| 15   | 2023-01-01 | 1            | Magarpatta    | Near Seasons Mall       | Gavthan  | 410503   | Diamond       | A    | Diamond a1        | 2023-03-01     | 2              | 6                  | 60               | 4         | Active     | 15 3                |
| NULL   | NULL       | NULL         | NULL          | NULL                    | NULL     | NULL     | NULL          | NULL | NULL              | NULL           | NULL           | NULL               | NULL             | NULL      | NULL       | NULL                |
|  |            |              |               |                         |          |          |               |      |                   |                |                |                    |                  |           |            |                     |
|  |            |              |               |                         |          |          |               |      |                   |                |                |                    |                  |           |            |                     |
|  |            |              |               |                         |          |          |               |      |                   |                |                |                    |                  |           |            |                     |

## Bill History:

| Result Grid  |              |            |             |         |        |                |            |                 |
|--------------|--------------|------------|-------------|---------|--------|----------------|------------|-----------------|
| Filter Rows: |              | Search     |             | Edit:   |        | Export/Import: |            |                 |
| id           | bill_amou... | end_date   | extra_count | is_paid | leaves | paid_on        | start_date | subscription... |
| 1            | 2060         | 2022-05-31 | 7           | 1       | 4      | 2022-06-05     | 2022-05-01 | 1               |
| 2            | 1940         | 2022-06-30 | 5           | 1       | 3      | 2022-07-05     | 2022-06-01 | 1               |
| 3            | 2120         | 2022-07-31 | 10          | 1       | 6      | 2022-08-05     | 2022-07-01 | 1               |
| 4            | 1880         | 2022-08-31 | 3           | 1       | 2      | 2022-09-05     | 2022-08-01 | 1               |
| 5            | 2400         | 2022-09-30 | 4           | 1       | 5      | 2022-10-05     | 2022-09-01 | 1               |
| 6            | 2400         | 2023-02-28 | 4           | 0       | 5      | NULL           | 2023-02-01 | 1               |
| 7            | 2060         | 2022-05-31 | 7           | 1       | 4      | 2022-06-05     | 2022-05-01 | 2               |
| 8            | 1940         | 2022-06-30 | 5           | 1       | 3      | 2022-07-05     | 2022-06-01 | 2               |
| 9            | 2120         | 2022-07-31 | 10          | 1       | 6      | 2022-08-05     | 2022-07-01 | 2               |
| 1            | 1880         | 2022-08-31 | 3           | 1       | 2      | 2022-09-05     | 2022-08-01 | 2               |
| 1            | 2400         | 2022-09-30 | 4           | 1       | 5      | 2022-10-05     | 2022-09-01 | 2               |
| 1            | 2400         | 2023-02-28 | 4           | 0       | 5      | NULL           | 2023-02-01 | 2               |
| 1            | 2060         | 2022-05-31 | 7           | 1       | 4      | 2022-06-05     | 2022-05-01 | 3               |
| 1            | 1940         | 2022-06-30 | 5           | 1       | 3      | 2022-07-05     | 2022-06-01 | 3               |
| 1            | 2120         | 2022-07-31 | 10          | 1       | 6      | 2022-08-05     | 2022-07-01 | 3               |
| 1            | 1880         | 2022-08-31 | 3           | 1       | 2      | 2022-09-05     | 2022-08-01 | 3               |
| 1            | 2400         | 2022-09-30 | 4           | 1       | 5      | 2022-10-05     | 2022-09-01 | 3               |
| 1            | 2400         | 2023-02-28 | 4           | 0       | 5      | NULL           | 2023-02-01 | 3               |
| NULL         | NULL         | NULL       | NULL        | NULL    | NULL   | NULL           | NULL       | NULL            |

## b. Delivery Agent:

### Delivery Agent Table:

| Result Grid  |                   |            |           |               |               |                |                |              |        |         |
|--------------|-------------------|------------|-----------|---------------|---------------|----------------|----------------|--------------|--------|---------|
| Filter Rows: |                   | Search     |           | Edit:         |               | Export/Import: |                |              |        |         |
| id           | user_email        | first_name | last_name | user_password | role          | contact_num... | date_of_bir... | joining_date | salary | line_id |
| 1            | sahil@gmail.com   | Sahil      | Patil     | sahil@123     | DELIVERYAGENT | 9960377301     | 1999-01-01     | 2021-05-01   | 10000  | 1       |
| 2            | saurabh@gmail.com | Saurabh    | Shelke    | saurabh@123   | DELIVERYAGENT | 7080102030     | 1998-03-11     | 2020-07-01   | 10000  | 2       |
| 3            | sunny@gmail.com   | Sunny      | Gujar     | sunny@123     | DELIVERYAGENT | 8070377301     | 1993-02-22     | 2022-03-01   | 10000  | 3       |
| NULL         | NULL              | NULL       | NULL      | NULL          | NULL          | NULL           | NULL           | NULL         | NULL   | NULL    |

### Line Number Table:

| Result Grid  |           |                |
|--------------|-----------|----------------|
| Filter Rows: |           | Search         |
| Edit:        |           | Export/Import: |
| id           | line_name | manager_id     |
| 1            | Koregaon  | 1              |
| 2            | Warje     | 2              |
| 3            | Pimpri    | 3              |
| NULL         | NULL      | NULL           |

## c. Admin

### Manager List

100%

1:1

Result Grid

Filter Rows:

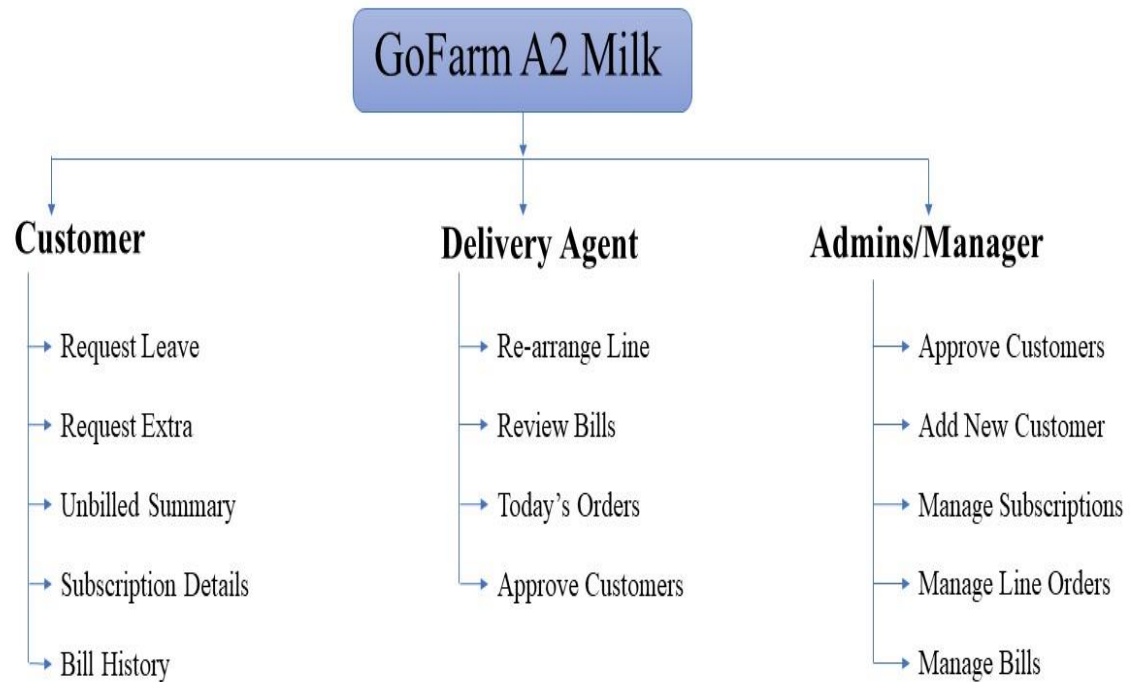
Edit:

Export/Import:

|   | id   | user_email       | first_name | last_name | user_password | role    |  |
|---|------|------------------|------------|-----------|---------------|---------|--|
| ▶ | 1    | pankaj@gmail.com | Pankaj     | Patil     | pankaj@123    | MANAGER |  |
|   | 2    | akshay@gmail.com | Akshay     | Patil     | akshay@123    | MANAGER |  |
|   | 3    | amit@gmail.com   | Amit       | Patil     | amit@123      | MANAGER |  |
|   | NULL | NULL             | NULL       | NULL      | NULL          | NULL    |  |
|   |      |                  |            |           |               |         |  |
|   |      |                  |            |           |               |         |  |
|   |      |                  |            |           |               |         |  |

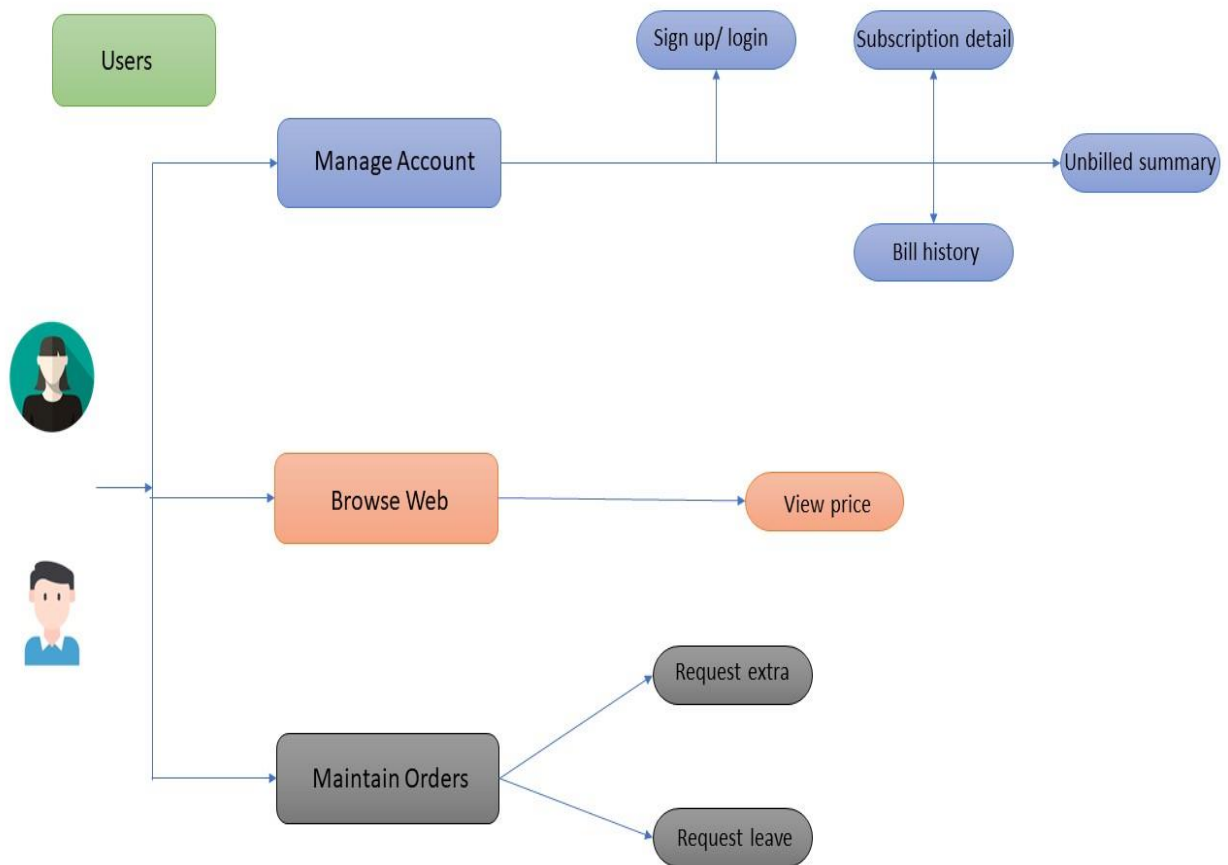


## 4.2 FUNCTIONAL DECOMPOSITION DIAGRAM

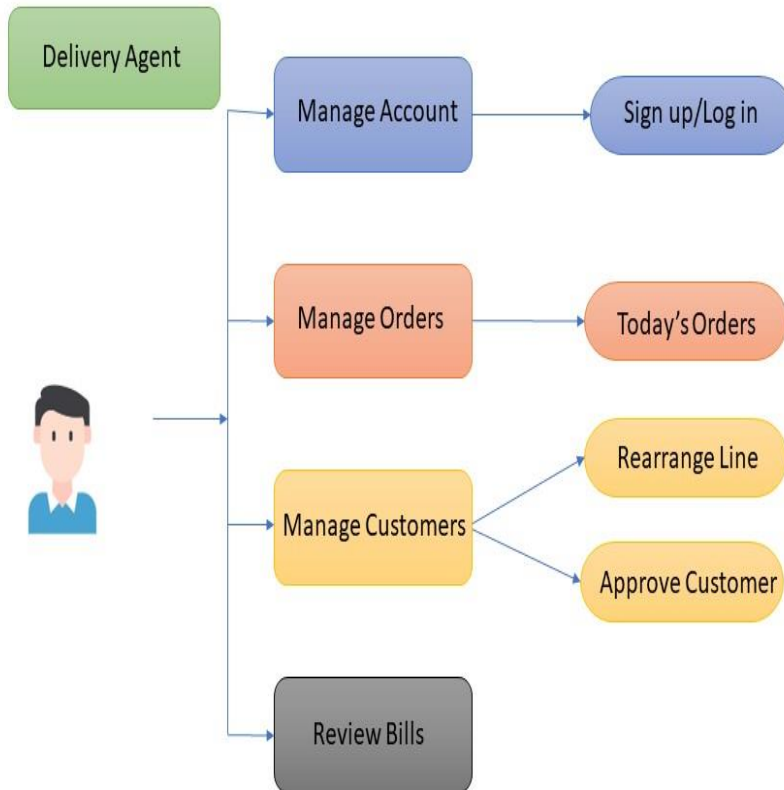


## 4.3 USE CASE DIAGRAM

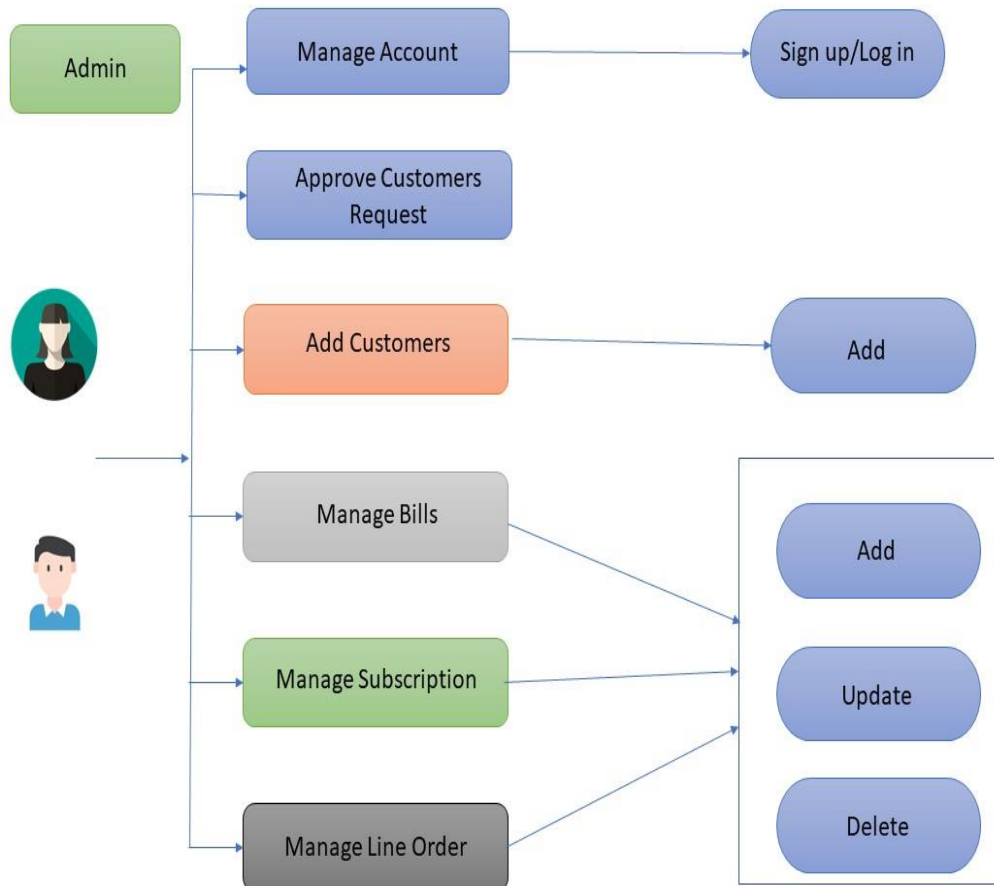
### A. Users



## B. Delivery Agent

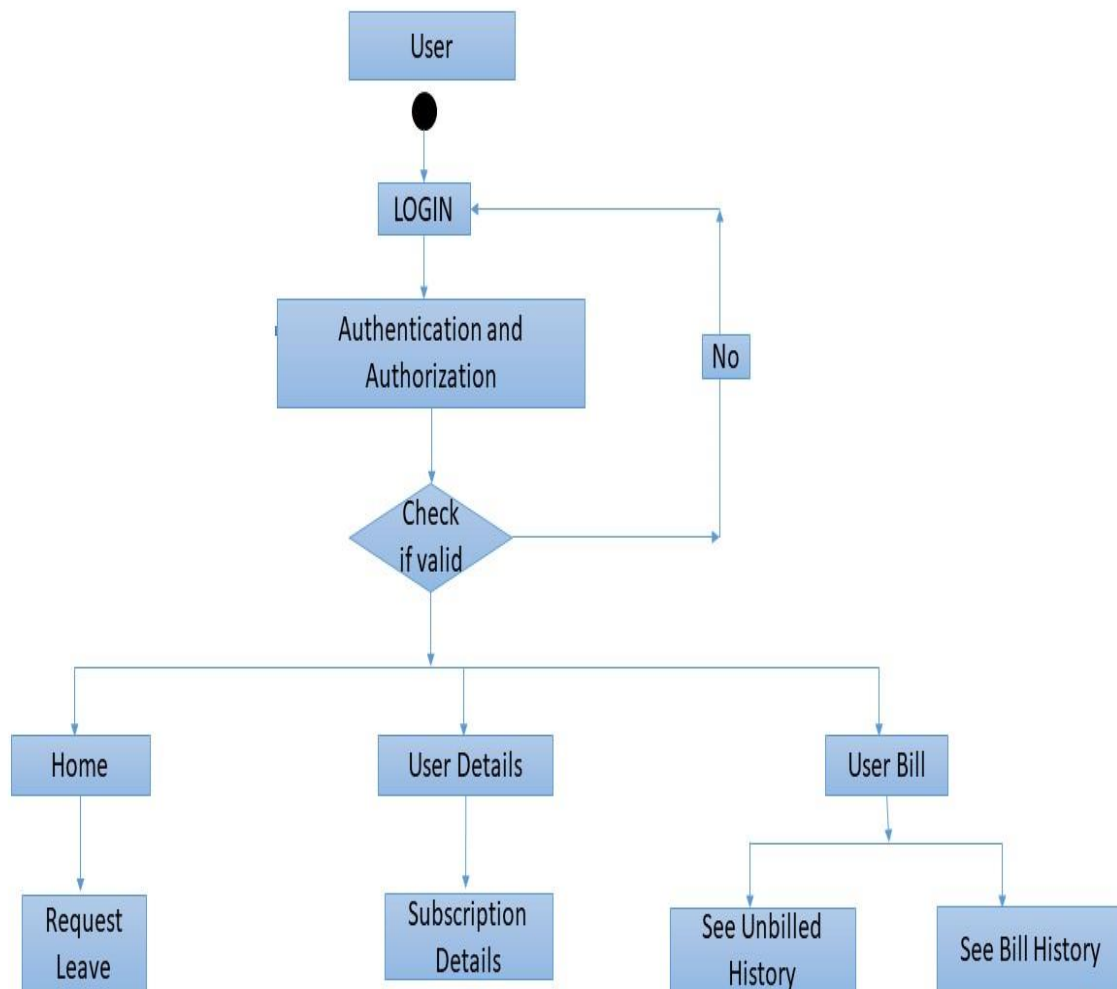


## C. Admin

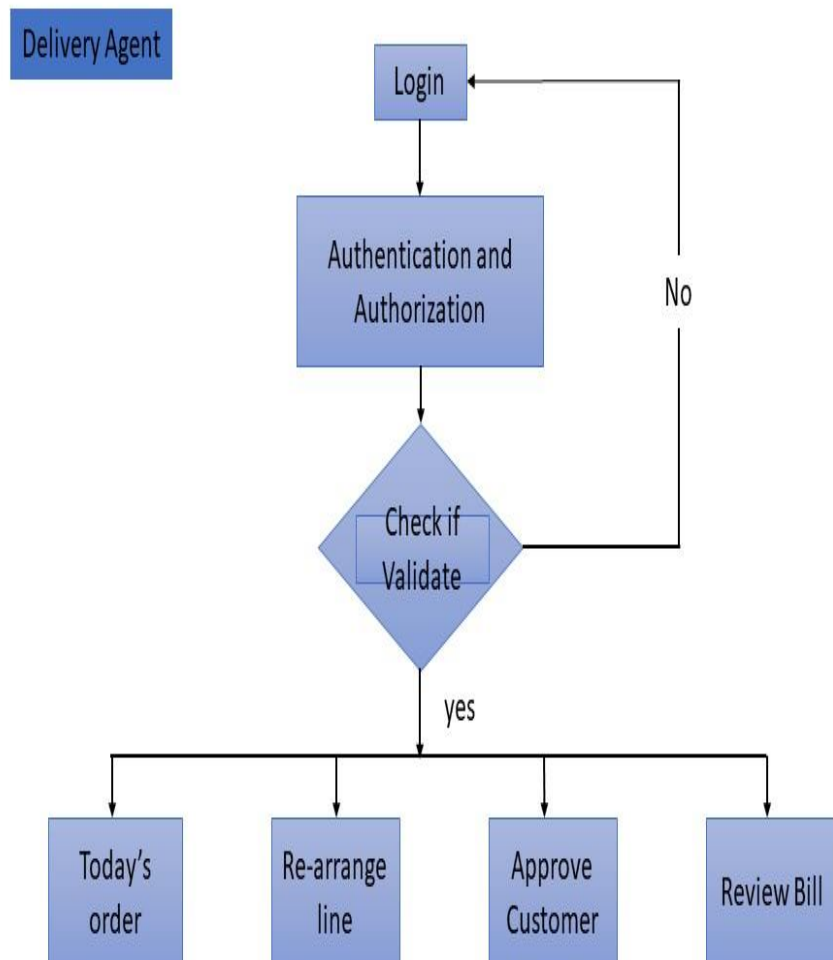


## 4.4. FLOW CHART

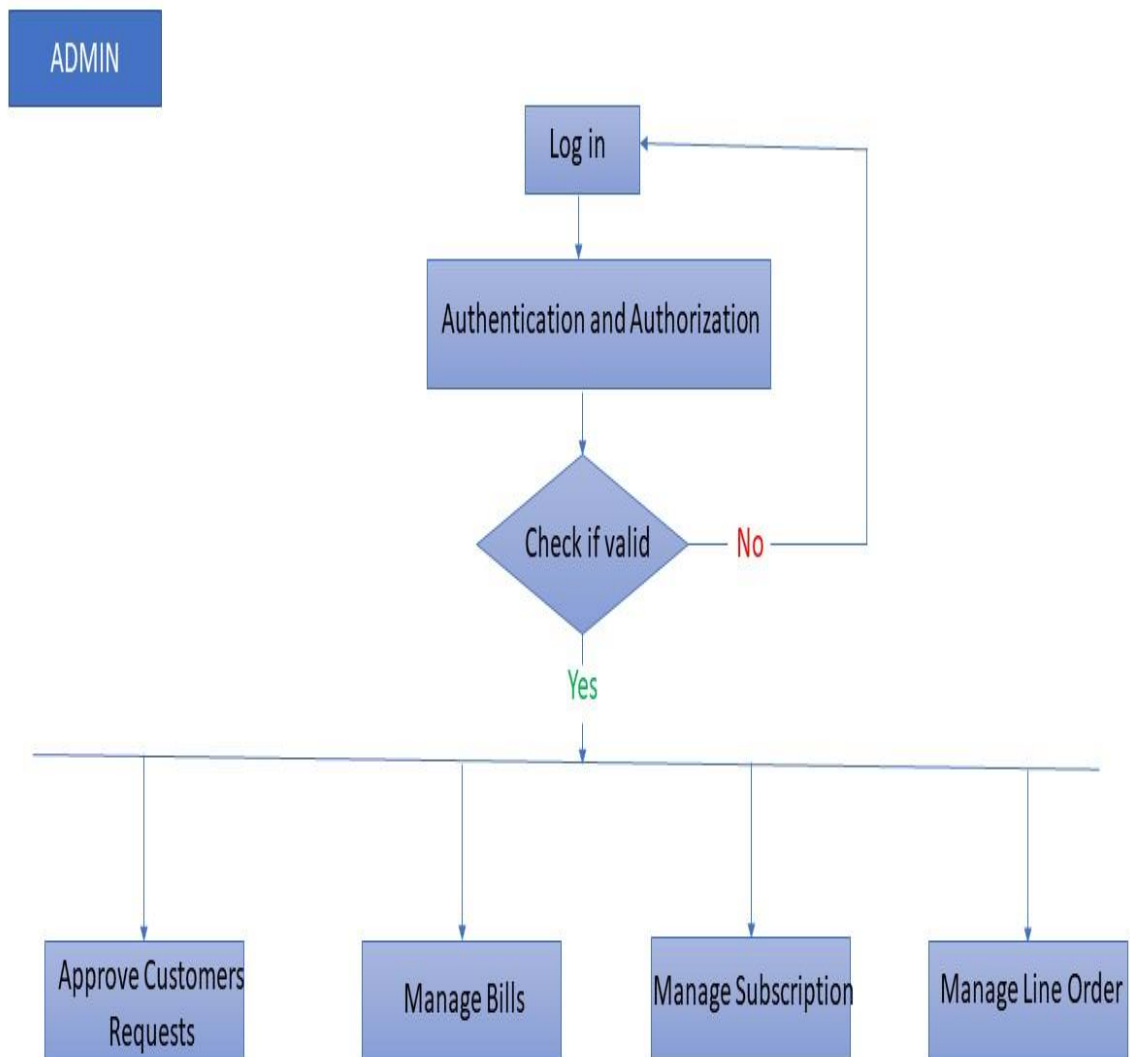
### A. Users



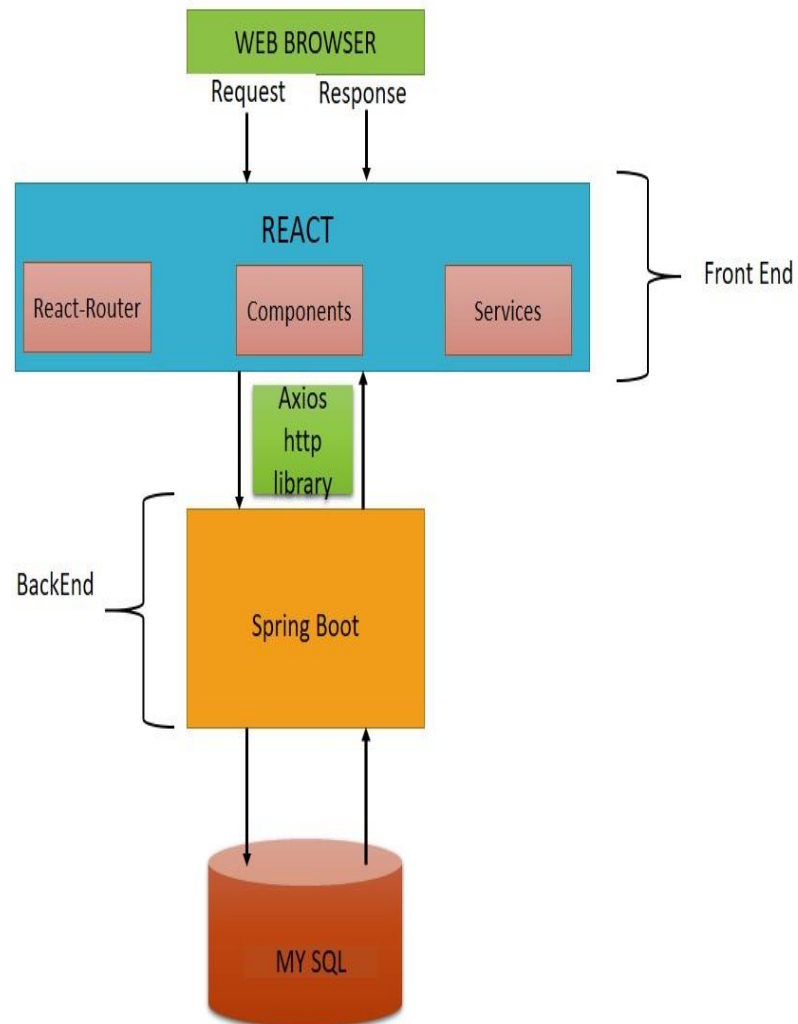
## B. Delivery Agents



## C. Admin




## 4.5. PROJECT ARCHITECTURE





## 5. PROJECT SCREENSHOTS

Login:



Welcome

Email

Password

Login



Give Your Family  
**POWERFUL NUTRIENTS**  
Essential for the development of  
your mind and body.

#GoodForHealth  
**Switch Today**

www.gofarmdairy.com  
We deliver the milk under the best cold chain right up to your doorstep.

Contact Us  
-Whatsapp +91 70309 00021  
+91 87664 63734

### 5.1. Customer

Request Leave:

Go Farm- Healthy Milk From Healthy Cow

Welcome Ujwal

- [Request Leave](#)
- [Request Extra](#)
- [Unbilled Summary](#)
- [Subscription Details](#)
- [Bill History](#)

### Request Leave

Leave Date

Submit

| Id | Leave Date | Is Approved | Is FulFilled |
|----|------------|-------------|--------------|
| 1  | 2023-03-15 | Yes         | Not Yet      |
| 2  | 2023-03-16 | Not Yet     | Not Yet      |

## Request Extra:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Ujwal**

- [Request Leave](#)
- [Request Extra](#)
- [Unbilled Summary](#)
- [Subscription Details](#)
- [Bill History](#)

**Request Extra**

Date23/03/2023

No Of Packets2

Submit

**Extra's List**

| Id | Extra Date | Is Delivered | Packets Count |
|----|------------|--------------|---------------|
| 1  | 2023-03-17 | No           | 4             |

## Unbilled Summary:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Ujwal**

- [Request Leave](#)
- [Request Extra](#)
- [Unbilled Summary](#)
- [Subscription Details](#)
- [Bill History](#)

**Unbilled Summary**

Subscription Id1

Start Date2023-03-02

Extras1

Leaves2

Packets Delivered12

Amount780

## Subscription Details:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Ujwal**

- [Request Leave](#)
- [Request Extra](#)
- [Unbilled Summary](#)
- [Subscription Details](#)
- [Bill History](#)

**Subscription Details**

First NameUjwal

Last NameKelkar

Subscribed On2023-01-01

Last Billed On2023-03-01

Quantity per Day1

Rate per Packet65

AddressVrindavan f13

## Bill History:

Go Farm- Healthy Milk From Healthy Cow

### Welcome Ujwal

- [Request Leave](#)
- [Request Extra](#)
- [Unbilled Summary](#)
- [Subscription Details](#)
- [Bill History](#)

### Bill History

| Bill Id | Start Date | End Date   | Is Paid | Paid On    | Bill Amount |
|---------|------------|------------|---------|------------|-------------|
| 1       | 2022-05-01 | 2022-05-31 | Paid    | 2022-06-05 | 2060        |
| 2       | 2022-06-01 | 2022-06-30 | Paid    | 2022-07-05 | 1940        |
| 3       | 2022-07-01 | 2022-07-31 | Paid    | 2022-08-05 | 2120        |
| 4       | 2022-08-01 | 2022-08-31 | Paid    | 2022-09-05 | 1880        |
| 5       | 2022-09-01 | 2022-09-30 | Paid    | 2022-10-05 | 2400        |
| 6       | 2023-02-01 | 2023-02-28 | Unpaid  |            | 2400        |

## 5.2. Admin

### Approve Customer Request:

Go Farm- Healthy Milk From Healthy Cow

### Welcome Pankaj

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

### Approve Pending Leaves

| Id | Alias         | Line Name | Leave Date | Action                         |
|----|---------------|-----------|------------|--------------------------------|
| 2  | Vrindavan f13 | Koregaon  | 2023-03-16 | <button>Approve Leave</button> |

### Assign Line To New Customers

| Id | Name            | Alias         | Action  |
|----|-----------------|---------------|---|
| 4  | Snehal Navale   | TilakNagar b4 | <div>Koregaon</div> <div><button>Assign Line</button></div> |
| 8  | Yash Savant     | PWD Colony d3 | <div>Koregaon</div> <div><button>Assign Line</button></div> |
| 10 | Varsha Rane     | Sopan Baug b7 | <div>Koregaon</div> <div><button>Assign Line</button></div> |
| 12 | Vaibhav Rajguru | Mathura j5    | <div>Koregaon</div> <div><button>Assign Line</button></div> |

## Manage Bills:

### 1. All Bills:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Pankaj**

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

**Manage Bills**

Generate Bills

Paid Bills

Unpaid Bills

All Bills

| Id | Alias             | Start Date | End Date   | Extra Count | Leaves | Bill Amount | Status | Paid On            |
|----|-------------------|------------|------------|-------------|--------|-------------|--------|--------------------|
| 1  | Vrindavan f13     | 2022-05-01 | 2022-05-31 | 7           | 4      | 2060        | Paid   | 2022-06-05         |
| 2  | Vrindavan f13     | 2022-06-01 | 2022-06-30 | 5           | 3      | 1940        | Paid   | 2022-07-05         |
| 3  | Vrindavan f13     | 2022-07-01 | 2022-07-31 | 10          | 6      | 2120        | Paid   | 2022-08-05         |
| 4  | Vrindavan f13     | 2022-08-01 | 2022-08-31 | 3           | 2      | 1880        | Paid   | 2022-09-05         |
| 5  | Vrindavan f13     | 2022-09-01 | 2022-09-30 | 4           | 5      | 2400        | Paid   | 2022-10-05         |
| 6  | Vrindavan f13     | 2023-02-01 | 2023-02-28 | 4           | 5      | 2400        | Unpaid | <div>Pay Now</div> |
| 7  | SidharthNagar a10 | 2022-05-01 | 2022-05-31 | 7           | 4      | 2060        | Paid   | 2022-06-05         |
| 8  | SidharthNagar a10 | 2022-06-01 | 2022-06-30 | 5           | 3      | 1940        | Paid   | 2022-07-05         |
| 9  | SidharthNagar a10 | 2022-07-01 | 2022-07-31 | 10          | 6      | 2120        | Paid   | 2022-08-05         |

### 2. Unpaid Bills:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Pankaj**

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

**Manage Bills**

Generate Bills

Paid Bills

Unpaid Bills

All Bills

|    |                   |            |            |   |   |      |        |                    |
|----|-------------------|------------|------------|---|---|------|--------|--------------------|
| 6  | Vrindavan f13     | 2023-02-01 | 2023-02-28 | 4 | 5 | 2400 | Unpaid | <div>Pay Now</div> |
| 12 | SidharthNagar a10 | 2023-02-01 | 2023-02-28 | 4 | 5 | 2400 | Unpaid | <div>Pay Now</div> |
| 18 | MadhuColony c1    | 2023-02-01 | 2023-02-28 | 4 | 5 | 2400 | Unpaid | <div>Pay Now</div> |

## Add New Customer:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Pankaj**

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

**Add New Customer**

First Name

Last Name

Email

Password

Address Line 1

Society

Wing

Apartment Number

Locality

City

## Manage Line Order:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Pankaj**

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Manage Subscriptions](#)
- [Manage Line Orders](#)

Release Line Orders

No Created or Active Orders to display

## Welcome Pankaj

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

## Manage Line Orders

Release Line Orders

| Id | LineNo   | OrderDate  | Status  | Action                  |                          |
|----|----------|------------|---------|-------------------------|--------------------------|
| 1  | Koregaon | 2023-03-13 | CREATED | <a href="#">Details</a> | <a href="#">Activate</a> |
| 2  | Warje    | 2023-03-13 | CREATED | <a href="#">Details</a> | <a href="#">Activate</a> |
| 3  | Pimpri   | 2023-03-13 | CREATED | <a href="#">Details</a> | <a href="#">Activate</a> |

## Manage Subscriptions:

## Welcome Pankaj

- [Approve Customers Request](#)
- [Manage Bills](#)
- [Add New Customer](#)
- [Manage Line Orders](#)
- [Manage Subscriptions](#)

## Manage Subscriptions

| Name          | Email               | Address                 | Alias             | Rate | StartDate  | LastBilledOn | subStatus | Actions  |
|---------------|---------------------|-------------------------|-------------------|------|------------|--------------|-----------|--|
| Ujwal Kelkar  | ujwal@gmail.com     | <a href="#">Address</a> | Vrindavan f13     | 65   | 2023-01-01 | 2023-03-01   | Active    | <a href="#">Edit</a><br><a href="#">Delete</a> |
| Suraj Teke    | customer2@gmail.com | <a href="#">Address</a> | SidharthNagar a10 | 70   | 2023-01-01 | 2022-08-01   | Inactive  | <a href="#">Edit</a><br><a href="#">Delete</a> |
| Sagar Rane    | customer3@gmail.com | <a href="#">Address</a> | MadhuColony c1    | 60   | 2023-01-01 | 2023-03-01   | Active    | <a href="#">Edit</a><br><a href="#">Delete</a> |
| Snehal Navale | customer4@gmail.com | <a href="#">Address</a> | TilakNagar b4     | 70   | 2023-01-01 |              | Created   | <a href="#">Edit</a><br><a href="#">Delete</a> |
| Nikhil Pawar  | customer5@gmail.com | <a href="#">Address</a> | Paradise f13      | 65   | 2023-01-01 | 2023-03-01   | Active    | <a href="#">Edit</a><br><a href="#">Delete</a> |
| Sumedh Raut   | customer6@gmail.com | <a href="#">Address</a> | Pearl a7          | 60   | 2023-01-01 | 2023-03-01   | Active    | <a href="#">Edit</a><br><a href="#">Delete</a> |

## 5.3. Delivery Agent

Today's Order:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Sahil**

- [Today's Order](#)
- [Re-Arrange Line](#)
- [Approve Customer](#)
- [Review Bills](#)

**Today's Order**

Line Order Details

Line Order Id: 1

Line No: 30

Order Date: 03/03/2023

Status: pending

| Sequencer | Id | Alias          | No Of Packets | Status         | Action      |
|-----------|----|----------------|---------------|----------------|-------------|
| 1         | 1  | Vrindavan f13  | 1             | Mark Delivered | Get Address |
| 2         | 2  | MadhuColony c1 | 2             | Mark Delivered | Get Address |
| 4         | 3  | Paradise f13   | 1             | Mark Delivered | Get Address |

Re-Arrange Line:

Go Farm- Healthy Milk From Healthy Cow

**Welcome Sahil**

- [Today's Order](#)
- [Re-Arrange Line](#)
- [Approve Customer](#)
- [Review Bills](#)

**Arrange Order of Customers in line**

| Id | Sequencer | Alias             | Up Action | Down Action |
|----|-----------|-------------------|-----------|-------------|
| 1  | 1         | Vrindavan f13     | Slide Up  | Slide Down  |
| 3  | 2         | MadhuColony c1    | Slide Up  | Slide Down  |
| 2  | 3         | SidharthNagar a10 | Slide Up  | Slide Down  |
| 5  | 4         | Paradise f13      | Slide Up  | Slide Down  |

Review Bills:

Go Farm - Healthy Milk From Healthy Cow

Welcome Sahil

[Todays Order](#)

[Re-Arrange Line](#)

[Approve Customer](#)

[Review Bills](#)

Review Bills in my Line

Paid Bills

Unpaid Bills

All Bills

| Id | Alias             | Start Date | End Date   | Extra Count | Leaves | Bill Amount | Status | Paid On            |
|----|-------------------|------------|------------|-------------|--------|-------------|--------|--------------------|
| 2  | Vrindavan f13     | 2022-06-01 | 2022-06-30 | 5           | 3      | 1940        | Paid   | 2022-07-05         |
| 3  | Vrindavan f13     | 2022-07-01 | 2022-07-31 | 10          | 6      | 2120        | Paid   | 2022-08-05         |
| 4  | Vrindavan f13     | 2022-08-01 | 2022-08-31 | 3           | 2      | 1880        | Paid   | 2022-09-05         |
| 5  | Vrindavan f13     | 2022-09-01 | 2022-09-30 | 4           | 5      | 2400        | Paid   | 2022-10-05         |
| 6  | Vrindavan f13     | 2023-02-01 | 2023-02-28 | 4           | 5      | 2400        | Unpaid | <div>Pay Now</div> |
| 8  | SidharthNagar a10 | 2022-06-01 | 2022-06-30 | 5           | 3      | 1940        | Paid   | 2022-07-05         |
| 9  | SidharthNagar a10 | 2022-07-01 | 2022-07-31 | 10          | 6      | 2120        | Paid   | 2022-08-05         |
| 10 | SidharthNagar a10 | 2022-08-01 | 2022-08-31 | 3           | 2      | 1880        | Paid   | 2022-09-05         |
| 11 | SidharthNagar a10 | 2022-09-01 | 2022-09-30 | 4           | 5      | 2400        | Paid   | 2022-10-05         |
| 12 | SidharthNagar a10 | 2023-02-01 | 2023-02-28 | 4           | 5      | 2400        | Unpaid | <div>Pay Now</div> |
| 14 | MadhuColony c1    | 2022-06-01 | 2022-06-30 | 5           | 3      | 1940        | Paid   | 2022-07-05         |



## 6. TESTING

One of the main purposes of testing is to validate and verify that the system works as intended. No program or system design is perfect. However, if we implement the system without proper testing, then it may cause problems and lead to a bad user experience.

Testing and checking outcomes of each test gives us the best chance to detect and correct errors before the system is implemented in a production environment.

In the course of our project, we made an effort to manually test each component. In all cases, we obtained the desired results as demonstrated below.

## A. CUSTOMER FEATURES TEST

| #  | Description              | Outcome   | Result |
|----|--------------------------|---|--------|
| 1. | Login as Customer        | Fetches authenticated user details saved in database.                               | Passed |
| 2. | Require Extra            | Request for extra is sent to the admin.   | Passed |
| 3. | Request Leave            | Request for leave is sent to the admin.   | Passed |
| 4. | See Subscription Details | Fetches subscription details of the selected customer from the database.            | Passed |
| 5. | Bill History             | Bill history of customer for given period of time is fetched from database.         | Passed |
| 6. | View Unbilled Summary    | Unbilled summary of customer from last paid date to today is fetched from database. | Passed |
| 7. | Logout                   | The session was cleared.  | Passed |

## B. ADMIN FEATURES TEST

| #  | Description               | Outcome  | Result |
|----|---------------------------|--|--------|
| 1. | Login as Admin            | Fetches authenticated Admin details saved in database.                                 | Passed |
| 2. | Approve Customers Request | Request from customer for leave is approved and saved in database assign Line.         | Passed |
| 3. | Manage Bills              | New bills are generated in database. And show unpaid and paid bills.                   | Passed |
| 4. | Manage Subscriptions      | CRUD operations can be performed on subscriptions.                                     | Failed |
| 5. | Manage Line Order         | New Line for each delivery agent will be assigned and will be updated in the database. | Passed |
| 6. | Create new Customer       | New customer will be created and saved in the database.                                | Passed |
| 7. | Logout                    | The session was cleared.   | passed |

## C. DELIVERY AGENT FEATURES TEST

| #  | Description             | Outcome  | Result |
|----|-------------------------|--|--------|
| 1. | Login as Delivery Agent | Fetches authenticated delivery agent details saved in database.  | Passed |
| 2. | Today's Order           | Delivery details for a day will be fetched from the database and after delivering packets changes made in list will be reflected in the database.                              | Passed |
| 3. | Re-arrange Line         | By changing sequencer of deliveries, line will be re-arranged. Changes will be reflected in database.  | Passed |
| 4. | Approve Customer        | Assign sequencer to new subscriber.  | Failed |
| 5. | Review Bills            | If customer wants to pay directly to delivery agent then delivery agent will make changes to bills which will be reflected in the database. Check whether bill is paid or not. | Passed |
| 7. | Logout                  | The session was cleared.   | Passed |

## 7. CONCLUSION

“GoFarm A2 Milk”, an online milk distribution management system, was developed by our project team to simplify the delivery system of milk. We tried using the latest technologies that are cross-platform and robust. Each and every software we used was open-source in nature, which keeps the cost of production at a minimum.

We were also meticulous about the user experience aspect of our application so that navigating our website is an easy and seamless experience.

In conclusion, “GoFarm A2 Milk” as an application would definitely be a good choice for any milk distributor and can expand its business in growing online market. We are confident that the numerous features and visually appealing look of the application will certainly give a big boost to the business

## 8. FUTURE SCOPE

Using whatever we have learnt over the duration of this course, we tried to make our project as user-friendly and gave it as many features as possible in the limited time allotted for the project work. That said, there are certainly more features that can be added to our application. Some of those are mentioned below:

1. We can track the location of delivery agents where are they now and can also add feature of giving them rating and their feedback.
2. Customers can upvote/downvote/report feedbacks.
3. Customers could write detailed review of delivery agents.
4. This application could be further scaled for other milk product delivery.
5. Payment options can be added.
6. After subscription, an email or a message can be send as confirmation.
7. CAPTCHA can be added to login page.
8. An email notification can be sent to the customers for upcoming offers

## 9. REFERENCES

Following is the list of websites we referred during the course of our project:

1. <https://getbootstrap.com/docs/5.1/getting-started/introduction/>
2. <https://reactjs.org/docs/getting-started.html>
3. <https://stackoverflow.com/>
4. <https://reactjs.org/>
5. <https://docs.oracle.com/en/java/javase/11/docs/api/>
6. <https://www.npmjs.com/>
7. <https://www.w3schools.com/>
8. <https://www.mysql.com/>